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United States Department of Agriculture,

OFFICE OF THE SECRETARY.

THE ADULTERATION AND MISBRANDING OF THE SEEDS OF KENTUCKY BLUEGRASS AND REDTOP.

During the calendar year 1913, seeds of Kentucky bluegrass and redbtop were secured in the open market in accordance with the following paragraph in the act of Congress making appropriations for the Department of Agriculture:

Where such samples [seeds of grasses, clover, or alfalfa secured in the open market] are found to be adulterated or misbranded, the results of the tests shall be published, together with the names of the persons by whom the seeds were offered for sale.

In carrying out the provisions of this act, 1,021 samples of the seeds mentioned above were secured and analyses made under the direction of Mr. E. Brown, Botanist in Charge of the Seed Laboratory, Bureau of Plant Industry, and publication is here made of the analyses of the 127 samples found to be adulterated or misbranded, together with the names of the seedsmen by whom they were sold or offered for sale.

KENTUCKY BLUEGRASS.

Of the 438 samples of Kentucky bluegrass seed obtained, 15, or less than 4 per cent, were found to be either adulterated or misbranded. Of these, 9 samples contained less than 2 per cent of Kentucky bluegrass. One sample was a mixture of redbtop, timothy, Canada bluegrass, and Kentucky bluegrass.

TABLE I.—Results of tests of samples of seed obtained in the open market as Kentucky bluegrass seed and found to be adulterated or misbranded.

Seed offered for sale or sold as Kentucky bluegrass seed by—		Seed obtained by—	Seeds and inert matter found upon analysis of samples.			
Name of dealer.	Address.		Kentucky bluegrass seed.	Canada bluegrass seed.	Other seeds.	Dirt and chaff.
			Per ct.	Per ct.	Per ct.	Per ct.
Davis Co., Zack.....	Delaware, Ohio.....	Mail (sample)...	66.45	3.12		30.43
Do.....	do.....	Purchase (bulk)...	0.07	71.98	1.04	26.91
Eaton Chase Co.....	129 Main street, Norwich, Conn.....	Mail (sample)...	67.96	7.97	1.08	22.99
Do.....	do.....	Purchase (bulk)...	47.84	26.33	1.36	24.47
Harnden Seed Co.....	505 Walnut street, Kansas City, Mo.....	Purchase (bulk)...	25.28	30.53	1 21.62	22.57
Harvey Seed Co.....	65 Ellicott street, Buffalo, N. Y.....	Purchase (bulk)...	1.69	82.94	6.61	8.76
La Rose Grain Co.....	La Rose, Ill.....	Purchase (bulk)...	44.21	26.52	3.24	26.03
Neely & Ferrall.....	900 East Eighth street, Canton, Ohio.....	Purchase (bulk)...	1.42	77.48	2 6.31	14.79
Scheifele, G. S.....	Oneida, N. Y.....	Purchase (bulk)...	1.18	61.12	3 7.26	30.44
Shaeffer, W. E.....	Lockport, N. Y.....	Mail (sample)...	.09	86.66	.56	12.69
Do.....	do.....	Purchase (bulk)...	.16	77.71	1.92	20.21
Steckler Seed Co., J.....	512 Gravier street, New Orleans, La.....	Mail (sample)...	46.22	36.44	3.11	14.23
Do.....	do.....	Purchase (bulk)...	61.29	24.91	1.30	12.50
Yuess Gardens Co.....	Newburgh, N. Y.....	Mail (sample)...	1.02	83.65	6.15	9.18
Do.....	do.....	Purchase (bulk)...	1.09	81.72	6.42	10.86

¹ Redtop or bent-grass, 16.29 per cent; timothy, 3.90 per cent.

² Timothy, 5.03 per cent.

³ Timothy, 5.75 per cent.

REDTOP.

Of the 583 samples obtained as redtop seed, 112 were found to be adulterated or misbranded. Of these, 110 samples contained timothy; one, Kentucky bluegrass and wood meadow grass; one, Canada bluegrass; and one, Kentucky bluegrass, Canada bluegrass, and meadow fescue.

TABLE II.—*Results of tests of samples of seed obtained in the open market as redtop seed and found to be adulterated or misbranded.*

Seed offered for sale or sold as redtop seed by—		Seed obtained by—	Seeds and inert matter found upon analysis of samples.			
Name of dealer.	Address.		Red-top seed.	Timothy seed.	Other seeds.	Dirt and chaff.
Alineer Bros.....	116 Kishwaukee street, Rockford, Ill.	Mail (sample)...	Per ct. 79.81	Per ct. 6.09	Per ct. 1.06	Per ct. 13.04
Do.....	do.....	Purchase (bulk)...	78.98	5.74	1.11	14.17
Andrews, jr., Jim...	13 East Side, Public square, Columbia, Tenn.	Mail (sample)...	81.85	6.96	1.22	9.97
Do.....	do.....	Purchase (bulk)...	82.47	6.84	.94	9.75
Bailey & Sons Co....	61 East 2d South street, Salt Lake City, Utah.	Mail (sample)...	78.38	7.82	.96	12.84
Do.....	do.....	Purchase (bulk)...	75.63	9.63	1.16	13.58
Beaumont Seed Co..	259 Crockett street, Beaumont, Tex.	do.....	76.55	12.73	1.15	9.57
Binghamton Seed Co.	135 Court street, Binghamton, N. Y.	Mail (sample)...	75.51	6.87	3.97	13.65
Do.....	do.....	Purchase (bulk)...	82.63	5.10	1.28	10.99
Breck & Sons, Joseph.	51 North Market street, Boston, Mass.	Mail (sample)...	84.63	5.09	.39	9.89
Do.....	do.....	Purchase (bulk)...	74.76	9.67	1.45	14.12
Brown, Arthur S....	Manchester, N. H.	do.....	78.96	11.82	.38	8.84
Buckbee, H. W.....	Rockford, Ill.	Mail (sample)...	55.20	6.10	2.20	36.50
Do.....	do.....	Purchase (bulk)...	57.32	5.04	2.28	35.36
Burnett Bros.....	72 Cortlandt street, New York, N. Y.	Mail (sample)...	32.39	6.15	1.95	59.51
Do.....	do.....	Purchase (bulk)...	38.89	9.02	2.23	49.86
Burt & Co., N. J....	110 North Main street, Burlington, Iowa.	Mail (sample)...	75.19	14.79	.97	9.05
Do.....	do.....	Purchase (bulk)...	78.24	12.72	.44	8.60
Busch Seed Co., W. J.	608 Massachusetts street, Lawrence, Kans.	Mail (sample)...	81.71	5.80	1.38	11.11
Do.....	do.....	Purchase (bulk)...	78.33	8.37	1.21	12.09
Carpenter Seed Co..	Provo, Utah.	Mail (sample)...	65.92	16.65	1.36	16.07
Do.....	do.....	Purchase (bulk)...	65.36	18.13	2.05	14.46
Champaign Seed Co.	Champaign, Ill.	Mail (sample)...	42.00	12.21	3.15	42.64
Do.....	do.....	Purchase (bulk)...	35.73	9.08	3.36	51.83
Douglas & Co., Saml.	444 Chestnut street, Nashville, Tenn.	do.....	81.46	7.95	.94	9.65
Ebbert Seed Co., The	412 South Main street, Rocky Ford, Colo.	Mail (sample)...	72.09	8.80	2.93	13.18
Do.....	do.....	Purchase (bulk)...	71.63	8.06	3.04	17.27
Frost, David C.....	758 West Short street, Lexington, Ky.	Mail (sample)...	77.52	8.76	2.10	11.62
Do.....	do.....	Purchase (bulk)...	63.07	20.32	1.25	15.36
Funk Bros. Seed Co.	Bloomington, Ill.	Mail (sample)...	80.81	11.42	.28	7.49
Do.....	do.....	Purchase (bulk)...	81.49	11.65	.38	6.48
German Nurseries & Seed House.	Beatrice, Nebr.	Mail (sample)...	79.54	6.88	1.06	12.52
Do.....	do.....	Purchase (bulk)...	78.07	8.44	1.12	12.37
Grout, Chas. F.....	352 24th street, Ogden, Utah.	Mail (sample)...	75.39	7.02	1.15	16.44
Do.....	do.....	Purchase (bulk)...	76.12	7.29	1.82	14.77
Haines Seed Co.....	1359 15th street, Denver, Colo.	do.....	68.43	16.60	2.52	12.45
Hardie Seed Co., David.	1005 Elm street, Dallas, Tex.	Mail (sample)...	68.85	10.35	2.93	17.87
Do.....	do.....	Purchase (bulk)...	67.18	8.16	3.07	21.59
Harvey Seed Co.....	65 Ellicott street, Buffalo, N. Y.	Mail (sample)...	46.56	15.88	3.29	34.27
Do.....	do.....	Purchase (bulk)...	41.04	16.04	3.11	39.81
Hayes Produce Co..	524 North Kansas avenue, Topeka, Kans.	Mail (sample)...	80.86	6.69	.93	11.52
Do.....	do.....	Purchase (bulk)...	81.91	6.22	1.17	10.70

TABLE II.—Results of tests of samples of seed obtained in the open market as redtop seed and found to be adulterated or misbranded—Continued.

Seed offered for sale or sold as redtop seed by—		Seed obtained by—	Seeds and inert matter found upon analysis of samples.			
Name of dealer.	Address.		Red-top seed.	Timothy seed.	Other seeds.	Dirt and chaff.
Helmer Milling Co...	14 Fourth street, Fond du Lac, Wis.	Mail (sample)...	Per ct. 68.32	Per ct. 14.02	Per ct. 3.27	Per ct. 14.39
Do.....	do.....	Purchase (bulk)...	64.23	18.40	5.07	12.30
Henderson Co., C.W.	Knoxville, Tenn.	Mail (sample)...	70.84	8.60	1.34	19.22
Do.....	do.....	Purchase (bulk)...	72.87	7.84	1.24	18.05
Hitchcock & Son, L. H.	126 Second avenue North, Nashville, Tenn.	Mail (sample)...	79.60	8.78	1.04	10.58
Do.....	do.....	Purchase (bulk)...	84.41	6.08	.39	9.12
Kay Elevator Co. W. O.	Salt Lake City, Utah.	Mail (sample)...	76.82	8.70	1.14	13.34
Do.....	do.....	Purchase (bulk)...	75.92	7.06	1.50	15.52
Keyser, Paul.....	204 Clay street, San Francisco, Cal.	Mail (sample)...	27.58	26.64	1.99	43.79
Do.....	do.....	Purchase (bulk)...	40.52	.....	¹ 41.46	18.02
McCullough's Sons Co., J. M.	316 Walnut street, Cincinnati, Ohio.	Mail (sample)...	78.30	10.90	.96	9.84
Do.....	do.....	Mail (sample)...	71.91	10.81	1.16	16.12
Do.....	do.....	Purchase (bulk)...	80.23	9.89	.95	8.93
MacMillen & Co.	Greenwich, Conn.	Purchase (bulk)...	.17	2.82	² 71.37	25.64
Marlow Seed Co...	119 West Douglas avenue, Wichita, Kans.	Mail (sample)...	76.02	6.64	1.13	16.21
Do.....	do.....	Purchase (bulk)...	71.40	11.71	1.15	15.74
Missouri Seed Co...	1426 St. Louis avenue, Kansas City, Mo.	Mail (sample)...	65.28	16.78	1.26	16.68
Do.....	do.....	Purchase (bulk)...	66.42	17.32	1.91	14.35
Nathan Grain Co...	Fort Wayne, Ind.	Mail (sample)...	64.55	19.60	1.92	13.93
Do.....	do.....	Purchase (bulk)...	60.87	20.39	2.03	16.71
National Seed Co...	101 West Main street, Louisville, Ky.	Mail (sample)...	71.27	14.90	1.17	12.66
Do.....	do.....	Purchase (bulk)...	63.01	23.31	1.07	12.61
Nebraska Seed Co.	1208 Jones street, Omaha, Nebr.	Mail (sample)...	80.23	6.33	.58	12.86
Do.....	do.....	Mail (sample)...	54.13	7.12	1.92	36.83
Do.....	do.....	Purchase (bulk)...	70.03	11.72	2.21	16.04
Oxley Seed Co.....	Gibson City, Ill.	Mail (sample)...	79.24	5.78	.48	14.50
Do.....	do.....	Purchase (bulk)...	76.28	6.10	.68	16.94
Pioneer Seed Co...	1445 Larimer street, Denver, Colo.	Mail (sample)...	83.71	9.21	.39	6.69
Do.....	do.....	Purchase (bulk)...	83.57	7.47	.46	8.50
Pittsburg Elevator Co.	Pittsburg, Kans.	Mail (sample)...	69.50	17.57	2.22	10.71
Do.....	do.....	Purchase (bulk)...	68.80	19.15	1.80	10.25
Ratekin's Seed House.	Shenandoah, Iowa.	Purchase (bulk)...	78.84	8.23	1.17	11.76
Reyburn, T. T.....	Leavenworth, Kans.	Mail (sample)...	64.69	17.61	1.22	16.48
Do.....	do.....	Purchase (bulk)...	63.34	19.79	2.13	14.74
Riese, Henry A.....	Bloomington, Ill.	Mail (sample)...	77.58	14.58	.27	7.57
Do.....	do.....	Purchase (bulk)...	79.59	12.36	.28	7.77
Robinson Supply Co.	21 West Nelson street, Lexington, Va.	Mail (sample)...	69.91	21.20	.20	8.69
Do.....	do.....	Purchase (bulk)...	70.19	20.48	.39	8.94
Rudy-Patrick Seed Co.	1306 West Eighth street, Kansas City, Mo.	Mail (sample)...	74.50	11.70	1.15	12.65
Do.....	do.....	Purchase (bulk)...	79.62	9.67	1.14	9.57
Schwill & Co., Otto.	12 South Front street, Memphis, Tenn.	Purchase (bulk)...	80.37	9.95	.35	9.33
Simpson Seed & Floral Co.	1551 Champa street, Denver, Colo.	Mail (sample)...	77.62	8.11	1.37	12.90
Do.....	do.....	Purchase (bulk)...	78.28	7.87	1.21	12.64
Slate Seed Co.....	South Boston, Va.	Mail (sample)...	70.08	12.01	1.08	16.83
Do.....	do.....	Purchase (bulk)...	68.99	12.35	1.13	17.53
State Nursery Co...	Helena, Mont.	Mail (sample)...	80.12	11.79	1.17	6.92
Do.....	do.....	Purchase (bulk)...	80.34	11.37	1.21	7.08
Steckler Seed Co., J.	512 Gravier street, New Orleans, La.	Mail (sample)...	24.34	25.51	5.24	44.91
Do.....	do.....	Purchase (bulk)...	44.29	13.71	3.24	38.76
Taylor Bros.....	Market and Front streets, Camden, N.J.	Mail (sample)...	29.39	.....	³ 33.66	36.95
Do.....	do.....	.....	76.61	11.05	2.95	9.39
Do.....	do.....	Purchase (bulk)...	80.25	7.16	2.95	9.64

¹ Kentucky bluegrass, 19.61 per cent; wood meadow grass, 18.77 per cent.² Canada bluegrass, 61.34 per cent.³ Kentucky bluegrass, 12.90 per cent; Canada bluegrass, 6.01 per cent; meadow fescue, 13.77 per cent.

TABLE II.—*Results of tests of samples of seed obtained in the open market as redtop seed and found to be adulterated or misbranded—Continued.*

Seed offered for sale or sold as redtop seed by—		Seed obtained by—	Seeds and inert matter found upon analysis of samples.			
Name of dealer.	Address.		Red-top seed.	Timothy seed.	Other seeds.	Dirt and chaff.
Tucker-Mosby Seed Co.	44 South Front street, Memphis, Tenn.	Mail (sample)...	<i>Per ct.</i> 77.00	<i>Per ct.</i> 9.16	<i>Per ct.</i> .98	<i>Per ct.</i> 12.86
Do.	do.	Purchase (bulk).	73.29	11.43	1.13	14.15
Union Seed Co.	Bristol, Tenn.	Mail (sample)...	80.87	9.81	.19	9.13
Do.	do.	Purchase (bulk).	81.52	9.57	.19	8.72
Valley Seed Co.	707 J street, Sacramento, Cal.	Mail (sample)...	37.76	7.03	2.03	53.18
Do.	do.	Purchase (bulk).	44.14	7.59	2.25	46.02
Vogeler Seed Co.	60 West First South street, Salt Lake City, Utah.	Mail (sample)...	71.76	6.87	2.90	18.47
Do.	do.	do.	77.80	10.53	2.18	9.49
Do.	do.	Purchase (bulk).	69.92	13.47	3.05	13.56
Whitney-Noyes Co.	Church street and Terrace, Buffalo, N. Y.	Mail (sample)...	76.16	6.17	4.09	13.58
Do.	do.	do.	78.51	5.75	3.20	12.54
Do.	do.	Purchase (bulk).	72.03	6.23	4.91	16.78
Wichita-Central Seed Co.	243 North Main street, Wichita, Kans.	Mail (sample)...	79.25	8.78	1.16	10.81
Do.	do.	Purchase (bulk).	78.53	7.91	1.04	12.52
Wood-Curtis Co.	Sacramento, Cal.	Mail (sample)...	54.18	17.28	2.53	26.01
Do.	do.	Purchase (bulk).	51.64	15.77	2.40	30.19
Word's Seed Store.	219 Pine street, Texarkana, Ark.-Tex.	Mail (sample)...	79.27	9.64	1.26	9.83
Do.	do.	Purchase (bulk).	80.15	8.09	.97	10.79

The Department of Agriculture will continue to examine and report promptly as to the presence of adulterants and dodder in any sample of seed submitted for that purpose. According to the location of the sender, these samples may be submitted to the Seed Laboratory at Washington, D. C., or to any of the following laboratories maintained through the cooperation of this Department: Branch Seed-Testing Laboratory, Agricultural Experiment Station, Columbia, Mo.; Branch Seed-Testing Laboratory, Agricultural Experiment Station, Baton Rouge, La.; Branch Seed-Testing Laboratory, Oregon Agricultural College, Corvallis, Oreg.; Branch Seed-Testing Laboratory, Purdue University, La Fayette, Ind.; Branch Seed-Testing Laboratory, California Agricultural Experiment Station, Berkeley, Cal.

WM. A. TAYLOR,
Chief, Bureau of Plant Industry.

Approved:

D. F. HOUSTON,
Secretary of Agriculture.

WASHINGTON, D. C., April 20, 1914.



